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Cooperative Endangered Species Conservation Fund
Endangered Species Act,
Sect. 6 “Traditional” Conservation Grants

APPLICATION FOR FEDERAL ASSISTANCE - BUDGET NARRATIVE 2022-2023, SEGMENT E-9-31

FLORIDA DEPARTMENT OF AGRICULTURE AND
CONSUMER SERVICES

FLORIDA FOREST SERVICE

FLORIDA STATEWIDE ENDANGERED AND
THREATENED PLANT CONSERVATION PROGRAM

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**FLORIDA STATEWIDE ENDANGERED AND THREATENED PLANT
CONSERVATION PROGRAM, BUDGET NARRATIVE 2022-2023
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**APPLICATION FOR FEDERAL ASSISTANCE
BUDGET NARRATIVE/WORK PLAN 2022-23
OCTOBER 1, 2022 THROUGH DECEMBER 31, 2023**

1. Florida Plant Conservation Program Administration, Management, and Research (Florida Forest Service - “State” Match as per AFA form 424). The objectives of this project are to: administer the Florida Plant Conservation Program through the timely completion and submission of both federal and state documents; administer plant conservation projects conducted by various organizations and provide access to reporting in an online database and list of report titles; test, populate, and conduct analyses using the database of funded projects related to plant recovery in Florida; and, conduct *in situ* monitoring of known rare plant populations and restoration of their habitat, if needed.

Federal	\$ 68,831
State Match	\$ 23,200 (25%)
Total	\$ 92,031

The salary per hour for this full-time staff position is \$21/hour (40% Fringe Benefits). Indirect Cost Rate is 15.16%. \$0 is requested for expenses as this position requires significant travel, purchases of herbicide, and coverage of unforeseen expenses. If expenses are not used, they are provided to State Natural Heritage Program to process federally listed and at-risk plant species GIS data into the Natural Heritage Program database (“Task 4” in the Project Narratives of this Application for Federal Assistance).

2. Lake Wales Ridge Scrub Plant Monitoring and Management Plan Development (Florida Forest Service - “State” Match as per AFA form 424). The objectives of this project are to: continue monitoring programs for 16 federally listed scrub species on public lands; determine population trends, survival, growth, fecundity, and recruitment for selected species using Level 2 and 3 monitoring; plan and implement habitat management in locations where these species occur or where there is potential of occurrence; and, to evaluate and research the effects of management activities on selected federally listed plant populations on at least three sites.

Federal	\$ 59,746
State Match	\$ 21,000 (26%)
Total	\$ 80,746

Equipment purchased in 2017 with Endangered Species Act, Sect. 6 “Traditional Funds” (CFDA #15-615): Truck, Ford, four-wheel drive, ½ ton, V-6, Crew Cab \$29,425.50. USFWS Service Award FL E-F17AP00801 (Segment E-9-26 of the Program). Status: In use and working very well for this project. The salary per hour for this full-time staff position is \$17.60/hour(40% Fringe Benefits). Indirect Cost Rate is 15.16%. \$1,000 is requested for expenses as this position requires purchase of field gear required to conduct intense, qualitative and quantitative monitoring.

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3. Conservation Research of the Recovery of Florida Ziziphus (*Ziziphus celata*)

(Archbold Biological Station - “Other” Match as per AFA form 424). The objectives of this project are to: conduct demographic monitoring and analysis of most wild, translocated, and captive Florida ziziphus populations; conduct analysis on long-term demographic data, carry out adaptive management on translocated populations to improve microhabitat conditions for survival and growth; collaborate with molecular geneticists to document genetic diversity among wild multi-clonal populations; assess parentage of plant material to be used in future translocations; explore additional genetic factors that may lead to introduction success; assist in cultivating propagules of underrepresented genotypes through tissue culture, root cuttings, and seed for future Florida ziziphus translocations; and perform GIS analysis to identify new search areas and coordinate searches for undiscovered populations of Florida ziziphus. Organize and host the Ad hoc Florida Ziziphus Recovery Team Meeting.

Federal	\$ 20,000
Other Match	\$ 6,667 (25%)
Total	\$ 26,667

The salaries for staff and internship positions per hour to conduct this project are \$25, \$18, and \$10 per hour (19% Fringe Benefits) for an estimated 467 hours. \$4,166 are proposed for supplies. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. \$95 are proposed for rent. The Indirect Cost rate is less than 10% of Total Direct Charges.

4. *In situ* and *ex situ* Conservation of the Federally Endangered Clasping Warea (*Warea amplexifolia*), Sandhill Habitat Restoration, and an Endangered Plant Introduction. Phase 2 (Bok Tower Gardens - “Other” Match as per AFA form 424). The objectives of this project are to: conduct sandhill restoration for a critical Clasping Warea population, population monitoring; studying factors that influence germination in the wild, the *ex situ* preservation of fresh, genetically diverse germplasm, and a rare plant population introduction.

Federal	\$ 12,000
Other Match	\$ 4,000 (25%)
Total	\$ 16,000

The salaries for staff and internship positions per hour to conduct this project are \$38, \$23, and \$25 per hour (12% Fringe Benefits) for an estimated 408 hours. \$200 in gas and mileage is proposed (for day trips only). \$400 in Supplies are proposed. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. The Indirect Cost rate is 0% of Total Direct Charges.

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5. Advancing conservation knowledge and actions for Apalachicola Wild Indigo in Florida: comprehensive monitoring and building *ex situ* collections (Atlanta Botanical Garden - “Other” Match as per AFA form 424). The objectives of this project are to: survey historic Florida Natural Areas Inventory (State Natural Heritage Program) tracked populations (13 sites); build species distribution models and search for previously undocumented populations; collect seeds for seedbanking; collect leaf tissue for the Atlanta Botanical Garden Conservation DNA Repository; and, collect and analyze demographic data.

Federal	\$ 18,484
Other Match	\$ 7,128 (27%)
Total	\$ 25,612

The salaries for staff and internship positions per hour to conduct this project are \$60.61, \$33.84, \$25.75, \$21.50, and \$18.45 per hour (12% Fringe Benefits) for an estimated 516 hours. \$375 in Supplies are proposed. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. The Indirect Cost rate is less than 10% of Total Direct Charges.

6. Advancing conservation knowledge and actions for Cooley’s meadowrue in Florida: demographic monitoring and propagation for future outplanting on protected lands (Atlanta Botanical Garden - “Other” Match as per AFA form 424). The main objectives of this project are to: continue study of Cooley’s meadowrue (*Thalictrum cooleyi*) population status; collect seed and leaf tissue for *ex situ* conservation and better understanding of genetic condition; collect pollen and test for viability; if necessary, propagate plants vegetatively if seed and pollen viability are low; and, outplanting in protected areas to establish new populations.

Federal	\$ 17,907
Other Match	\$ 8,178 (31%)
Total	\$ 26,085

The salaries for staff and internship positions per hour to conduct this project are \$60.61, \$33.84, \$25.75, \$25.06, \$21.50, \$18.45, and \$17.18 per hour (12% Fringe Benefits) for an estimated 489 hours. \$232 in Supplies are proposed. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. The Indirect Cost rate is less than 10% of Total Direct Charges.

7. Survey for *Coreopsis integrifolia* in North Florida and Georgia (Florida State University, Florida Natural Areas Inventory - “State” Match as per AFA form 424). The objectives of this project include conducting range-wide surveys of the “At-Risk” (currently being petitioned for federal protection) state-listed, critically imperiled Ciliate-leaf tickseed by visiting accessible extant and historical populations in Florida and Georgia, creating a species distribution model to expand searches for new plants/populations, and determine population size (if possible), populate FNAI’s Biotics database with spatial data of known occurrences and share data with Georgia

APPLICATION FOR FEDERAL ASSISTANCE 2022-23 BUDGET NARRATIVE/WORK PLAN (cont.)

Department of Natural Resources botanists for additions to their database, and utilize the data to update the global and state ranking of this species using the NatureServe Conservation Rank Calculator.

Federal	\$ 18,864
Other Match	\$ 2,096 (10%)
Total	\$ 20,960

The salaries for staff and internship positions per hour to conduct this project is \$30 and \$22 per hour (40% Fringe Benefits) for an estimated 460 hours. \$1560 is proposed for rent. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. The Indirect Cost rate is less than 10% of Total Direct Charges.

8. Conservation of the Southeast Florida endemic Tiny Polygala. (Fairchild Tropical Botanic Garden - “Other” Match as per AFA form 424). The objectives of this project include counting the number of *P. smallii* individuals at all known, non-federal locations, conduct monthly counts in two populations, sustainably collect from all known (non-federal) extant populations, survey historic and unsurveyed likely habitat, conduct raking of some populations and then monitoring at 3, 6 and 9 months for seedling emergence, count and conduct initial viability assessments of collected seeds, through experimental germination trials, determine whether tiny polygala seeds are capable of orthodox storage; if seeds prove capable of orthodox storage, bank seed from all (non-federal) populations possible at FTBG and the National Laboratory for Genetic Resources Preservation in Fort Collins Colorado.

Federal	\$ 20,000
Other Match	\$ 9,200 (31%)
Total	\$ 29,200

The salaries for staff and internship positions per hour to conduct this project are \$33, \$24, \$23, and \$21 per hour (33% Fringe Benefits) for an estimated 550 hours. \$300 in gas and mileage is proposed (for day trips only). \$250 in Supplies are proposed. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. The Indirect Cost rate is 0% of Total Direct Charges.

9. Conservation and Research Supporting Blushing Scrub Balm (*Dicerandra modesta*) and Longspurred Mint (*Dicerandra cornutissima*) (Florida Native Plant Society - “Other” Match as per AFA form 424). The objectives of the proposed study are: to annually census blushing scrub balm and longspurred mint individuals to determine if populations are growing or shrinking

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over time (+/- 20%); document recruitment patterns and survival across a range of management zones and disturbance regimes; and, share data and analysis with land managers and assist them in their management of important publicly-owned properties.

Federal	\$ 13,104
Other Match	\$ 12,293 (48%)
Total	\$ 25,397

The salaries for staff and internship positions per hour to conduct this project are \$26.44 and \$21.63 per hour for an estimated 303 hours (no Fringe Benefits proposed). \$5,390 are proposed for supplies. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. The Indirect Cost rate is less than 10% of Total Direct Charges.

10. Management of *Macbridea alba* and *Pinguicula ionantha* on the Apalachicola Lowland Preserve - “Other” Match as per AFA form 424). The objectives of this project are to: utilize prescribed fire on a privately owned preserve in a way that mimics the natural ecological fire regime and benefits in situ *M. alba* and *P. ionantha*, implement quantitative rare plant surveys and plant monitoring, remove select woody shrubs and trees that outcompete rare plants on the preserve, and to become a recipient site for imperiled plant reintroduction, introduction, or augmentation for all four targeted species.

Federal	\$ 19,744
Other Match	\$ 6,770 (25%)
Total	\$ 26,514

The salaries for two staff to conduct this project are both \$25 per hour for an estimated 336 hours (35% Fringe Benefits). \$1,440 in gas and mileage is proposed (for day trips only). \$2,000 in Equipment is proposed, \$3,300 in Supplies are proposed, and \$500 in Contractual funds. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. The Indirect Cost rate is less than 10% of Total Direct Charges.

11. Conservation and Research Supporting Florida *Torreya* (Florida Native Plant Society - “Other” Match as per AFA form 424). The objectives of this project are to: seek out property owners within the predicted range of the species; conduct surveys for Florida *torreya* trees once landowner permission has been obtained; collect genetic material; set up and monitor seed trials on private lands; and, advise private landowners on best management practices.

Federal	\$ 12,560
Other Match	\$ 6,000 (32%)
Total	\$ 18,560

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The salaries for staff and internship positions per hour to conduct this project are \$26.44 and \$21.63 per hour for an estimated 490 hours (0% Fringe Benefits). \$1,142 are proposed for Expenses. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. The Indirect Cost rate is less than 10% of Total Direct Charges.

12. Invasive Plant Removal at Angus Gholson, Jr. Nature Park, Chattahoochee, Florida (Gholson Park Volunteers - “Other” Match as per AFA form 424). The objectives of this project are to utilize the many dedicated volunteers for invasive, exotic plant removal at AGNP and pay local volunteer to do more extensive invasive, exotic plant removal.

Federal	\$ 1,397
Other Match	\$ 467 (66%)
Total	\$ 1,864

The salary for staff per hour to conduct this project is \$20 per hour. Volunteer estimated cost is federal minimum wage or near cost per hour of salary of staff doing similar work. No other costs are proposed.

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FLORIDA STATEWIDE ENDANGERED AND THREATENED PLANT CONSERVATION PROGRAM BUDGET NARRATIVE/WORK PLAN TABLE OF PROPOSED 2022-2023 (SEGMENT E-9-31) PROJECTS, OCTOBER 1, 2022 THROUGH DECEMBER 31, 2023 FEDERAL (75% or less), MATCH (25+%), AND TOTAL COST AMOUNTS					
Proposed Projects, Organization	Federal Match	State Match	Local Match	Other Match	Total
1. Florida Plant Conservation Program Administration, Management and Research...Florida Forest Service.	\$68,831	\$23,200	\$0	\$0	\$92,031
2. Lake Wales Ridge Scrub Plant Monitoring and Management Plan Development...Florida Forest Service.	\$59,746	\$21,000	\$0	\$0	\$80,746
3. Conservation Research of the Recovery of Florida Ziziphus (<i>Ziziphus celata</i>)...Archbold Biological Research Station.	\$20,000	\$0	\$0	\$6,667	\$26,667
4. <i>In situ</i> and <i>ex situ</i> conservation of the federally endangered Clasping warea (<i>Warea amplexifolia</i>)...Bok Tower Gardens.	\$12,000	\$0	\$0	\$4,000	\$16,000
5. Advancing conservation knowledge and actions for Apalachicola Wild Indigo ... Atlanta Botanical Garden	\$18,484	\$0	\$0	\$7,128	\$25,612
6. Advancing conservation knowledge and actions for Cooley's Meadow Rue ... Atlanta Botanical Garden	\$17,907	\$0	\$0	\$8,178	\$26,085
7. Survey for <i>Coreopsis integrifolia</i> in North Florida and Georgia...Florida State University, Florida Natural Areas Inventory.	\$18,864	\$0	\$0	\$2,096	\$20,960
8. Conservation of the Southeast Florida endemic Tiny Polygala...Fairchild Tropical Botanic Garden.	\$20,000	\$0	\$0	\$9,200	\$29,200
9. Conservation and research supporting blushing scrub balm (<i>Dicerandra modesta</i>) and longspurred mint (<i>D. cornutissima</i>)... Florida Native Plant Society.	\$13,104	\$0	\$0	\$12,293	\$25,397
10. Management of <i>Macbridea alba</i> and <i>Pinguicula ionantha</i> on the Apalachicola Lowland Preserve... Coastal Plains Institute, Inc.	\$19,744	\$0	\$0	\$6,770	\$26,514

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Proposed Projects, Organization	Federal Match	State Match	Local Match	Other Match	Total
11. Conservation and research supporting Florida Torreya...Florida Native Plant Society.	\$12,560	\$0	\$0	\$6,000	\$18,560
12. Invasive Plant Removal at Angus Gholson, Jr. Nature Park, Chattahoochee, Florida... Gholson Park Volunteer	\$1,397	\$0	\$0	\$467	\$1,864
Total Federal, State, Local, and Other Match, Total Funding 2021-22	\$282,637	\$46,296	\$0	\$106,999	\$389,636
Total Federal Match, Non-federal Match, Total Funding 2021-22	\$282,637	\$106,999 (37% of total)*			\$389,636

*Federal and non-federal matching funds are administered through Florida Department of Agriculture and Consumer Services, Administrative Policies and Procedures 4-29 and are in accordance with federal Uniform Guidance (2 CFR § 200). The Indirect Cost maximum is 10% on the federal portion and 15% on the matching portion. Fringe Benefits are a maximum of 35% but can be higher with approval. Overnight travel costs are not expended using federal funds, only matching funds at the following maximum level (some scenarios may require higher travel funding but good documentation and approval must be made): Mileage \$ 0.445/mile, Breakfast \$6; Lunch \$11; Dinner \$19; and, Per Diem \$80; or, if more, then cost = \$6 Breakfast + \$11 Lunch + \$19 Dinner + hotel expense (<\$150). Single item equipment over \$1,000 requires approval from the Program (during Proposal period).